

IP-CSdnAV (IP^w-CSdnAV)

This is a professional CCD IP camera with web server built in. User can view real-time video via IE browser. It supports MPEG-4 & JPEG video compression which provides smooth and high video quality. The video can be stored in the SD card and replayed remotely.

With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

II. Product Specifications

- True Day/Night Motorised Removable IR Cut Filter
- MPEG4/JPEG compression
- Supports SD card for Backup / Stand-Alone recording
- Wireless network connection (IP^w-CSdnAV)
- 2-way audio
- Support Cell phone/PDA
- Online firmware upgrade
- Compatible with Microsoft Windows Media Player

Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
SDRAM	64MB
Flash	8MB
Image sensor	1/3" Sony CCD
Sensitivity	0.1 Lux @ F1.0 without IR CUT filter
Lens (option)	CS or C Mount with optional 5 mm Spacer
Support DC IRIS	Yes
I/O	2 in / 2 out
RS-485	Yes
Video Out	1
Microphone	Built-in
Audio Out	1 (requires Amplified Speaker)
Power Requirements	12VDC Regulated 450mA (550mA IP ^w -CSdnAV)

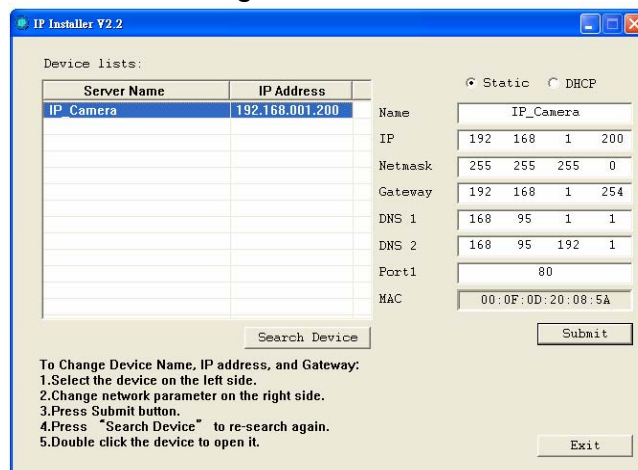
Dimensions (WxHxD)		80 x 70 x 145 mm
Network		
Ethernet		10/100 Base-T
Network Protocol		HTTP, TCP/IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP
Wireless (IPw-CSdnAV)		
	Wireless	802.11b/g
	WEP	64 / 128 bit
System		
Video Resolution		PAL : 720x576, 704x576, 352x288, 176x144
Video adjust		Brightness, Contrast, Saturation
CCD setting		AES, BLC, AGC, Day/ Night (Auto)
Image snapshot		Yes
Full screen monitoring		Yes
Compression format		MPEG-4 / JPEG
Video bitrate adjust		CBR, VBR
Motion Detection		Yes, 3 different areas
Triggered action		Mail, FTP, Save to SD card
Pre/ Post alarm		Yes, configurable
Security		Password protection
Firmware upgrade		HTTP mode, can be upgraded remotely
Simultaneous connection		Up to 10
Audio		Yes, 2-way
SD card management		
Recording trigger		Motion Detection, IP check, Network break down (wired connection only)
Video format		AVI, JPEG
Video playback		Yes
Delete files		Yes
Web browsing requirement		
OS		Windows 2000, XP, 2003, IE 6.0 or above
Hardware	Suggested	Intel-C 2.0G, RAM : 512MB, Graphic card : 64MB
	Minimum	Intel-C 1.6G, RAM : 256MB, Graphic card : 32MB

C. IP Assignment

- i. Use the software, “IP Installer” to assign the IP address of IP CAMERA. The software is on CD.
- ii. IP installer supports two languages
 - a. IPInstallerCht.exe : Chinese version
 - b. IPInstallerEng.exe : English version
- iii. There are 3 kinds of IP configuration.
 - a. Fixed IP (Public IP or Virtual IP)
 - b. DHCP (Dynamic IP)
 - c. Dial-up (PPPoE)
- iv. Execute IP Installer
- v. For Windows XP SP2 user, it may popup the following message box. Please click “Unblock”.



- vi. IP Installer configuration:



- vii. IP Installer will search all IP Cameras connected on LAN. The user can click “Search Device” to search again.
- viii. Click one of the IP Camera listed on the left side. The network configuration of this IP camera will show on the right side. You may

change the “name” of the IP Camera to your preference (eg: Office, warehouse). Change the parameter and click “Submit” then click “OK”. It will apply the change and reboot the Device.



- ix. Please make sure the subnet of PC IP address and IP CAM IP address are the same.

The same Subnet:

IP CAM IP address: 192.168.1.200

PC IP address: 192.168.1.100

Different Subnets:

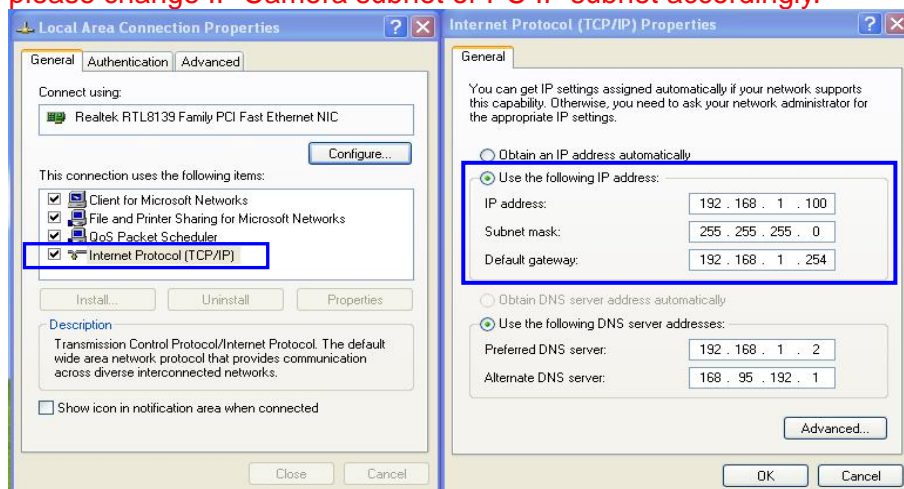
IP CAM IP address: 192.168.2.200

PC IP address: 192.168.1.100

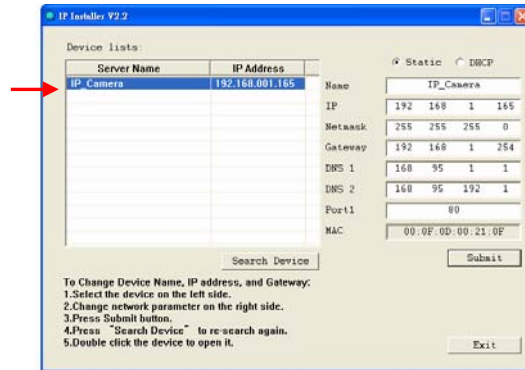
To Change PC IP address:

Control Panel→Network Connections→Local Area Connection Properties→Internet Protocol (TCP/IP) →Properties

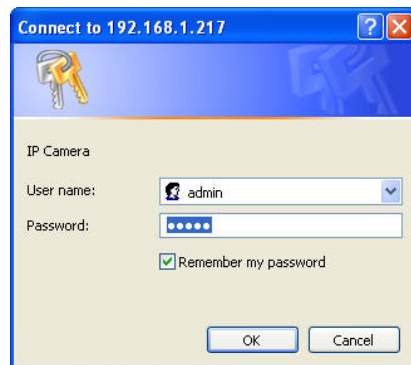
Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera subnet or PC IP subnet accordingly.



- x. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on “Device list” of IP Installer. An IE browser will be opened.



- xi. Then, please key in the default “user name: admin” and “password: admin”.



D. Install ActiveX control:

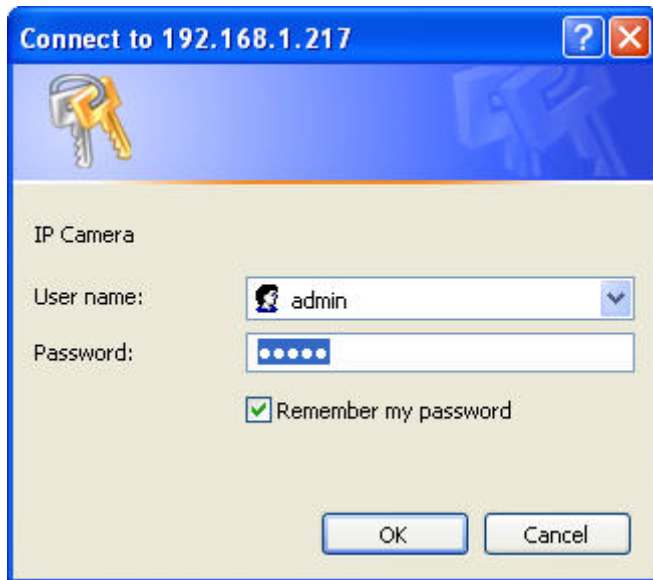
For the first time to view the camera video via IE, it will ask you to install the ActiveX component.

If the installation failed, please check the security setting for the IE browser.

- i. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select “Enable” or Prompt.
- ii. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select “Enable” or Prompt.

IV. Live Video

Start a IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “**admin**” and “**admin**”.



When connect to the IP CAMERA ◦ The following program interface shows.





1. : Get into the administration page

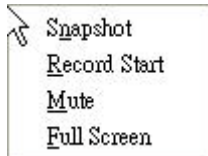


2. : Video Snapshot

3. Show system time, video resolution, and video refreshing rate
4. IP CAMERA supports 2-way audio. Click the "Chatting" check box. Then you can use microphone which connect to the PC to talk to server side, which is IP CAMERA side. (**Amplified Speaker required for Camera side**)
5. Control the relay which is connected to this camera.

Double-click the video, it will change to full screen mode. Press "Esc" or double-click the video again, it will change back to normal mode.



Right-Click the mouse on the video, it will show a pop-up menu.

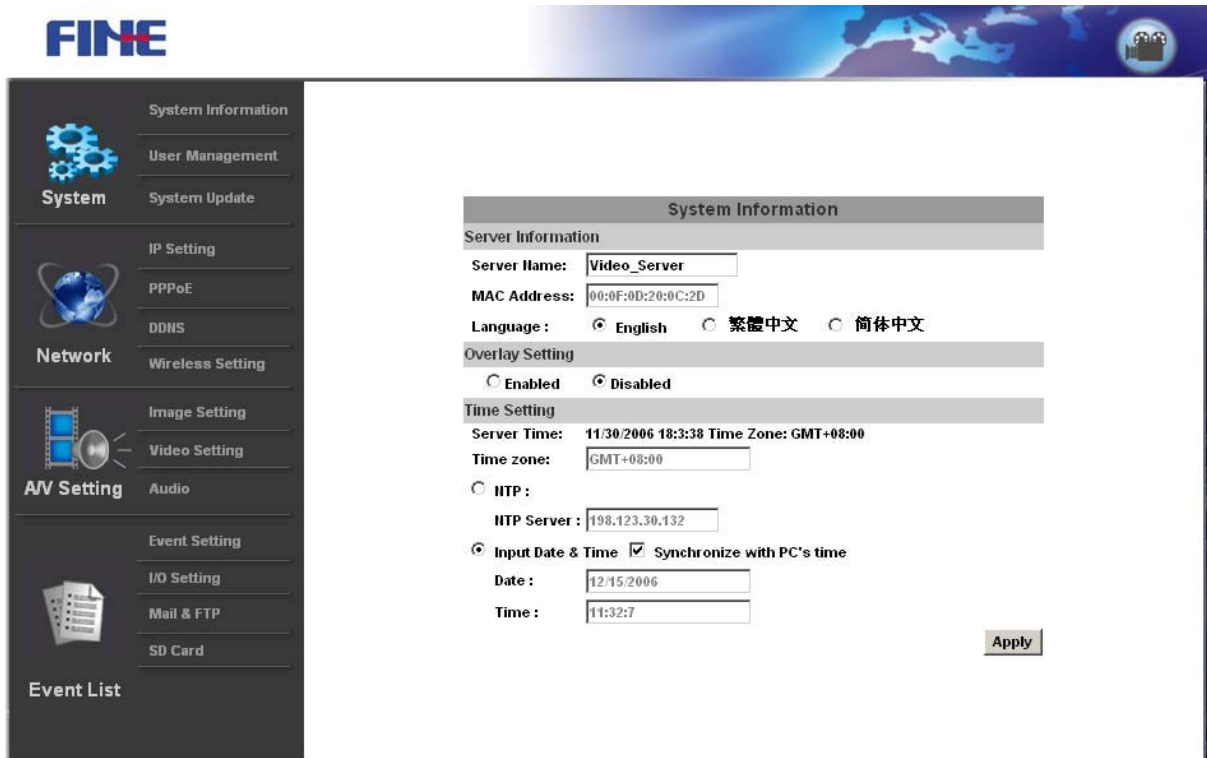


1. Snapshot : Save a JPEG picture
2. Record Start : Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select "Record Stop". The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Mute : Turn of the audio. Click again to turn on it.
4. Full Screen : Full-screen mode.

V. Configuration



Click  to get into the administration page. Click  to go back to the live video page.



The screenshot shows the FINE IP Camera administration interface. On the left is a sidebar with a menu: System (with a gear icon), Network (with a globe icon), AV Setting (with a camera icon), and Event List (with a document icon). The main content area is titled 'System Information' and contains several sections: 'Server Information' with fields for Server Name (Video_Server), MAC Address (00:0F:0D:20:0C:2D), and Language (English selected); 'Overlay Setting' with a radio button for Disabled selected; 'Time Setting' with fields for Server Time (11/30/2006 18:33:38), Time Zone (GMT+08:00), and a checkbox for Synchronize with PC's time checked; and 'IITP' with a field for IITP Server (198.123.30.132). An 'Apply' button is at the bottom right.

System Information	
Server Information	
Server Name:	Video_Server
MAC Address:	00:0F:0D:20:0C:2D
Language :	<input checked="" type="radio"/> English <input type="radio"/> 繁體中文 <input type="radio"/> 简体中文
Overlay Setting	
	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Time Setting	
Server Time:	11/30/2006 18:33:38 Time Zone: GMT+08:00
Time zone:	GMT+08:00
<input type="radio"/> IITP :	
IITP Server :	198.123.30.132
<input checked="" type="radio"/> Input Date & Time <input checked="" type="checkbox"/> Synchronize with PC's time	
Date :	12/15/2006
Time :	11:32:7
<input type="button" value="Apply"/>	

A.System

i、System Information

- a. Server Information: Set up the camera name, select language, and set up the camera time.
 1. Server Name : This is the Camera name. This name will show on the IP Installer.
 2. Select language : There are English, Traditional Chinese, and Simplified Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.



- b. Overlay Setting: select a position where date & time showing on screen.

Overlay Setting	
<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled
Position:	<input checked="" type="radio"/> Top-Left <input type="radio"/> Top-Right <input type="radio"/> Bottom-Left <input type="radio"/> Bottom-Right

- c. Server time setting : Select options to set up time - “NTP”, “Synchronize with PC’s time”, “Manual”, “The date and time remain the same”.

Time Setting	
Server Time:	2007/4/11 14:56:01 Time Zone: GMT+08:00
Date Format:	<input checked="" type="radio"/> yy/mm/dd <input type="radio"/> mm/dd/yy <input type="radio"/> dd/mm/yy
Time zone:	GMT+08:00
<input checked="" type="radio"/> NTP :	GMT-09:00 GMT-08:00 GMT-07:00 GMT-06:00 GMT-05:00 GMT-04:00 GMT-03:30 GMT-03:00 GMT-02:00 GMT-01:00 GMT-00:00 GMT+01:00 GMT+02:00 GMT+03:00 GMT+03:30 GMT+04:00 GMT+04:30 GMT+05:00
NTP Server :	
<input type="radio"/> Synchronize	
Date :	
Time :	
<input type="radio"/> Manual	
Date :	
Time :	
<input type="radio"/> The date and time remain the same	
Apply	

ii、User Management

IP CAMERA supports three different users, administrator, general user, and anonymous user.

The screenshot shows the 'User Management' interface. At the top, there's a section for 'Anonymous User Login' with radio buttons for 'YES' and 'NO' (where 'NO' is selected), and a 'Setting' button. Below this is the 'Add User' section with input fields for 'Username:', 'Password:', and 'Confirm:', followed by an 'Add/Set' button. At the bottom is the 'User List' section, which contains a table with columns: 'Username', 'User Group', 'Modify', and 'Remove'. The table has one row with the values 'admin', 'Administrator', 'Edit', and an empty space for 'Remove'.

Username	User Group	Modify	Remove
admin	Administrator	Edit	

- Anonymous User Login :
Yes : Allow anonymous login
No : Need user name & password to access this IP camera
- Add user :
Type the user name and password, then click "Add/Set".
- Click "edit" or "delete" to modify the user.

The screenshot shows a 'User Setup' dialog box within a Microsoft Internet Explorer window titled 'User_Setting - Microsoft Internet Explorer'. The dialog box has input fields for 'Username:' (containing 'admin'), 'Password:', and 'Confirm:', and an 'OK' button.

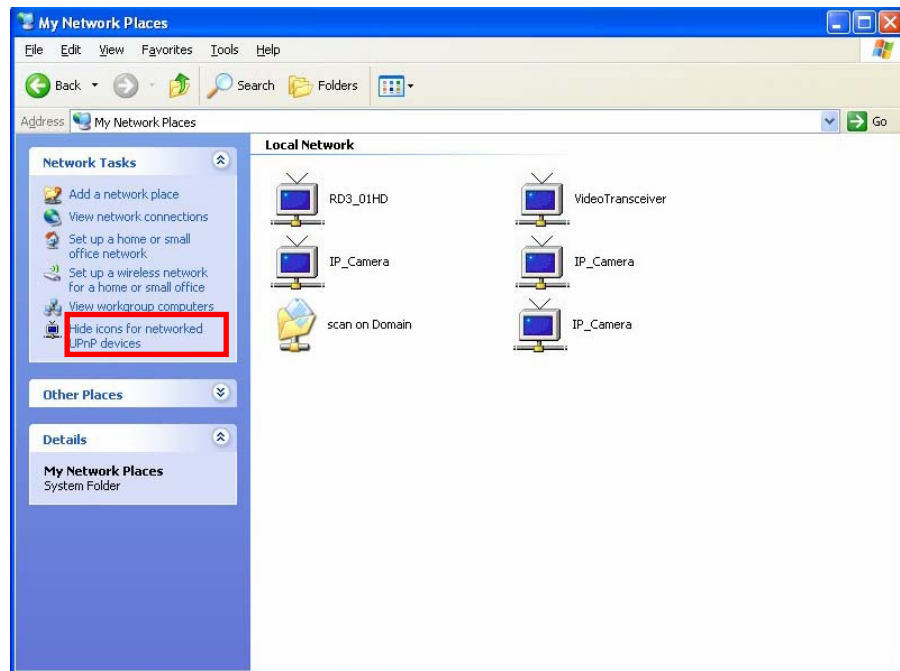
B.Network

i、 IP Setting

IP Camera supports DHCP and static IP.

IP Setting			
IP Assignment			
<input type="radio"/> DHCP <input checked="" type="radio"/> Static			
IP Address:	<input type="text" value="192.168.1.200"/>		
Subnet Mask:	<input type="text" value="255.255.255.0"/>		
Gateway:	<input type="text" value="192.168.1.254"/>		
DNS 0:	<input type="text" value="168.95.1.1"/>		
DNS 1:	<input type="text" value="168.95.192.1"/>		
Port Assignment			
Web Page Port:	<input type="text" value="80"/>		
RTSP Port :	<input type="text" value="554"/>		
RTP Start Port:	<input type="text" value="5000"/>	[1024..10000]	
RTP End port:	<input type="text" value="9000"/>	[1025..10000]	
UPnP			
UPnP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled		
<input type="button" value="Apply"/>			

- a. DHCP : Using DHCP, IP Camera will get all the network parameters automatically.
- b. Static IP : Please type in IP address, subnet mask, gateway, and DNS manually.
- c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.
 1. Web Page Port: setup web page connecting port and video transmitting port (Default: 80)
 2. RTSP Port: setup port for RTSP transmitting (Default: 554)
 3. RTP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554).
UDP connection uses RTP Start and End Port.
- d. UPnP (Universal Plug and play): Display UPnP device icon in 『 My Network Places 』 for hyper link.



ii 、 PPPoE :

PPPoE	
PPPoE Setting	
<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled
Username:	<input type="text"/>
Password:	<input type="password"/>
Send mail after dialed	
<input type="checkbox"/> Enabled	
Subject:	<input type="text" value="PPPoE From IPcam"/> <input type="button" value="Apply"/>

Select “Enabled” to use PPPoE.

Key-in Username and password for the ADSL connection.

Send mail after dialed : When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to “Mail and FTP” settings.

iii 、 DDNS :

It supports DDNS (Dynamic DNS) service.

a. DynDNS :

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider:

Hostname:

Username:

Password:

Schedule Update: Minutes

State

Idle

↑
↓

Apply

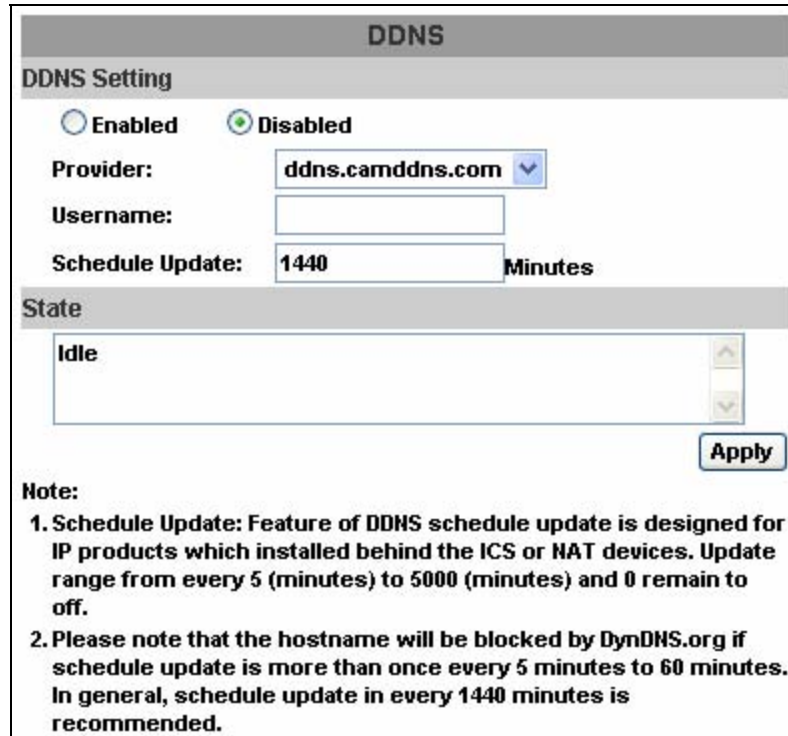
Note:

1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.

2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Enable this service
2. Key-in the DynDNS server name, user name, and password.
3. Set up the IP Schedule update refreshing rate.
4. Click "Apply"
5. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.

b. Camddns service :



DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider: ddns.camddns.com

Username:

Schedule Update: 1440 Minutes

State

Idle

Apply

Note:

1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DymDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Please enable this service
 2. Key-in user name.
 3. IP Schedule update is default at 5 minutes
 4. Click "Apply".
- c. DDNS Status
1. Updating : Information update
 2. Idle : Stop service
 3. DDNS registration successful, can now log by
<http://<username>.ddns.camddns.com> : Register successfully.
 4. Update Failed, the name is already registered : The user name has already been used. Please change it.
 5. Update Failed, please check your internet connection : Network connection failed.
 6. Update Failed, please check the account information you provide : The server, user name, and password may be wrong.

iv 、 Wireless Setting (**IPw-CSdnAV only**)

Supports 802.11 b/g wireless connection.

Notice : Wireless network and Ethernet network use the same IP, user has to unplug Ethernet cable, if Ethernet cable is not unplug, wireless setting cannot be executed.

Wireless Setting			
Status of Wireless Networks			
SSID	Mode	Security	Signal strength
allan	Infrastructure	WPA	79
RHOSON	Infrastructure	WEP	16
Link	Infrastructure	OFF	16
SinoStar	Infrastructure	WEP	11
7f-2	Infrastructure	WEP	12
00160159A7FA	Infrastructure	WEP	56
RDTEST	Infrastructure	WEP	48
3Com	Infrastructure	OFF	43
Default	Infrastructure	WPA	74

Wireless Setting	
MAC Address:	00:16:16:16:DD:E1
Mode:	Infrastructure ▼
Operation Mode:	Auto ▼
SSID:	allan
Security:	None ▼
<input type="button" value="Apply"/>	

- a. Status of Wireless Networks ;
scan all wireless services.
- b. Wireless Setting :
 1. **Mode** : There are Infrastructure and Ad-hoc. Infrastructure is for connecting with the router. Ad-hoc is for connecting with PC. There is "Channel" to select only when user uses Ad-hoc mode.
e.g. If one PC's channel is 1, the other's channel has to 1, too.

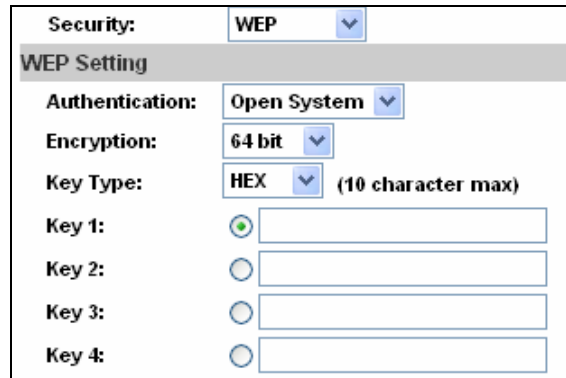
Wireless Setting	
MAC Address:	00:11:E2:03:37:48
Mode:	Ad-hoc ▼
Operation Mode:	Auto ▼
SSID:	Default
Channel:	6 ▼
Security:	None ▼

2. **SSID** : Based on AP setting.
3. **Channel** : This is only be used when the user selects Ad-hoc

mode in order to avoid conflict.

4. **Security** : It supports “None”, “WEP”, “WPA-PSK” security encryption based on the setting of the Router.

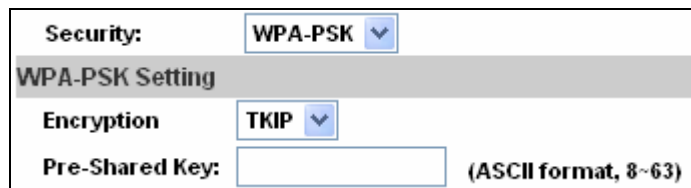
5. **WEP** :



The WEP Setting interface shows a 'Security' dropdown set to 'WEP'. Below it is a 'WEP Setting' section with 'Authentication' set to 'Open System', 'Encryption' set to '64 bit', and 'Key Type' set to 'HEX' (with a note '(10 character max)'). There are four key input fields labeled 'Key 1:', 'Key 2:', 'Key 3:', and 'Key 4:', each with a radio button next to it. 'Key 1' is selected.

- Authentication : There are Open System and Shared Keys, it is based on different encryptions. This has to be the same as the Router’s setting.
- Encryption : There are 64 bits and 128 bits. This is based on Key Type based on the Router’s setting.
- Key Type : There are HEX and ASCII. When selecting HEX, the user only can input 0~9 characters and use A, B, C, D, E, and F.
- When selecting ASCII, the user can input any character.
(Case sensitive)
- Key 1~4 : Based on Key Type to input characters.

6. **WPA-PSK** :



The WPA-PSK Setting interface shows a 'Security' dropdown set to 'WPA-PSK'. Below it is a 'WPA-PSK Setting' section with 'Encryption' set to 'TKIP' and a 'Pre-Shared Key' input field with a note '(ASCII format, 8~63)'.

- Encryption : There are TKIP and AES.
- Pre-Shared Key : Allow any characters .(Case sensitive)

C.A/V Setting

i 、 Image Setting

Camera




Image Setting

Brightness:

0

▼

Contrast:

0

▼

Hue:

0

▼

Saturation:

0

▼

Default

CCD Setting

Auto Electronic Shutter:

☒ ON ☐ OFF

Back Light Compensation:

☐ ON ☒ OFF

Automatic Gain Control:

☐ ON ☒ OFF

Adjust “Brightness”, “Contrast”, “Hue”, “Saturation” to get clear video.
For CCD Setting, IP CAMERA supports “Auto Electronic Shutter”, “Back Light Compensation”, and “Automatic Gain Control”.

ii 、 Video Setting

User may select 2 streaming output simultaneously:

Streaming 1 Setting: Basic mode and Advanced mode

Streaming 2 Setting: Basic mode, Advanced mode, and 3GPP mode

(Max Video Frame Rate for both streaming combined is 25 FPS)

a. Streaming 1 Basic Mode :

Video Setting

Streaming 1 Setting

☒ **Basic Mode** ☐ **Advanced Mode**

Resolution: D1 - 720x480 ▼

Quality: Best ▼

Video Frame Rate: 30 FPS ▼

Video Format: MPEG4 ▼

Video Orientation: ☐ Flip ☐ Mirror

RTSP Path: **ex:rtsp://<<IP>>/ No Audio**

Streaming 2 Setting

☐ **Basic Mode** ☐ **Advanced Mode** ☐ **3GPP Mode** ☒ **Close**

Apply

1. Resolution :

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	–	720×480	/	720×576
4CIF	–	704×480	/	704×576
CIF	–	352×240	/	352×288
QCIF	–	176×120	/	176×144

2. Quality :

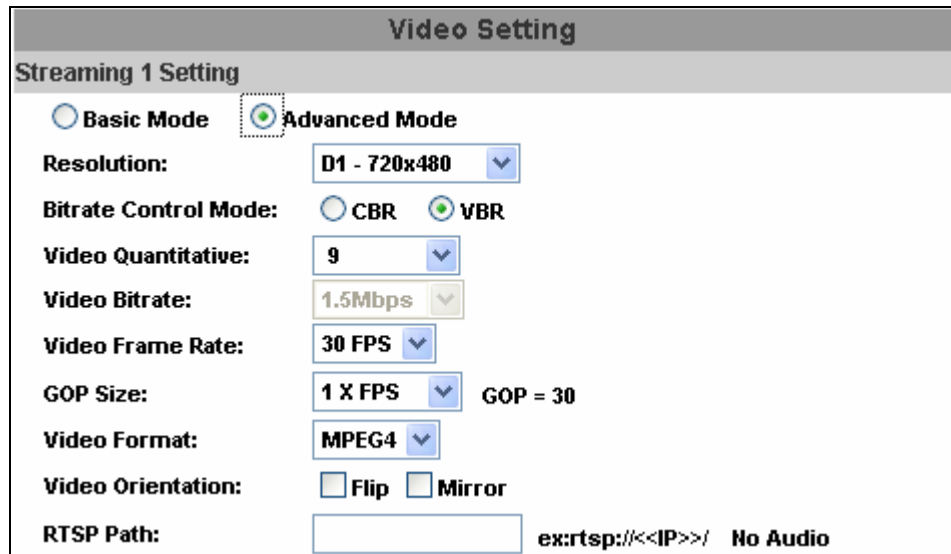
There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is. Also not good for internet transmitting

3. Video Frame Rate : The video refreshing rate per second. The MAX is 25 FPS.
4. Video Format : MPEG4 or JPEG
5. Video Orientation : Flip or Mirror
6. RTSP Path: RTSP output name

b. Streaming 1 Advanced Mode :



Video Setting

Streaming 1 Setting

☐ Basic Mode ☒ **Advanced Mode**

Resolution: D1 - 720x480

Bitrate Control Mode: ☐ CBR ☒ **VBR**

Video Quantitative: 9

Video Bitrate: 1.5Mbps

Video Frame Rate: 30 FPS

GOP Size: 1 X FPS **GOP = 30**

Video Format: MPEG4

Video Orientation: ☐ Flip ☐ Mirror

RTSP Path: ex:rtsp://<<IP>>/ No Audio

1. Resolution :

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	–	720×480	/	720×576
4CIF	–	704×480	/	704×576
CIF	–	352×240	/	352×288
QCIF	–	176×120	/	176×144

2. Bitrate Control Mode

There are CBR [Constant Bit Rate] and VBR [Variable Bit Rate] to use.

CBR : 64Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate

The video refreshing rate per second.

4. GOP Size

It means "Group of Pictures". The higher the GOP is, the better the quality is.

5. Video Format : MPEG4 or JPEG

6. Video Orientation : Flip or Mirror

7. Access Name: RTSP output connecting route

c. Streaming 2 Basic Mode :

Streaming 2 Setting

☒ Basic Mode
 ☐ Advanced Mode
 ☐ 3GPP Mode
 ☐ Close

Resolution: QCIF - 176x120

Quality: Low

Video Frame Rate: 5 FPS

Video Format: MPEG4

RTSP Path: v2 ex:rtsp://<<IP>>/v2 No Audio

1. Resolution :

There are 4 resolutions to choose.

	NTSC	/	PAL
D1	– 720x480	/	720x576
4CIF	– 704x480	/	704x576
CIF	– 352x240	/	352x288
QCIF	– 176x120	/	176x144

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is. Also not good for internet transmitting

3. Video Frame Rate : The video refreshing rate per second.

4. Video Format : MPEG4 or JPEG

5. RTSP Path: RTSP output connecting route

d. Streaming 2 Advanced Mode :

Streaming 2 Setting

☐ Basic Mode
 ☒ Advanced Mode
 ☐ 3GPP Mode
 ☐ Close

Resolution: QCIF - 176x120

Bitrate Control Mode: ☒ CBR ☐ VBR

Video Quantitative: 7

Video Bitrate: 128Kbps

Video Frame Rate: 5 FPS

GOP Size: 1 X FPS GOP = 5

Video Format: MPEG4

RTSP Path: v2 ex:rtsp://<<IP>>/v2 No Audio

1. Resolution :

There are 4 resolutions to choose.

	NTSC	/	PAL
D1	– 720x480	/	720x576

4CIF – 704×480 / 704×576
CIF – 352×240 / 352×288
QCIF – 176×120 / 176×144

2. Bitrate Control Mode

There are CBR [Constant Bit Rate] and VBR [Variable Bit Rate] to use.

CBR : 64Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate

The video refreshing rate per second.

4. GOP Size

It means "Group of Pictures". The higher the GOP is, the better the quality is.

5. Video Format : MPEG4 or JPEG

6. RTSP Path: RTSP output name

7. 3GPP: 3GPP output name

e. Streaming 2, 3GPP mode:

3GPP mode suggest setting: QCIF, lower than 128kbps, 5FPS, GOP= 1x FPS or 2x FPS, MPEG4 format

1. Fix Resolution :

QCIF – 176×120 / 176×144

2. Bitrate Control Mode

There are CBR [Constant Bit Rate] and VBR [Variable Bit Rate] to use.

CBR : 64Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate (**5 FPS is recommended**)
The video refreshing rate per second.
4. GOP Size
It means "Group of Pictures". The higher the GOP is, the better the quality is.
5. Video Format : MPEG4 or JPEG
6. 3GPP: 3GPP output name

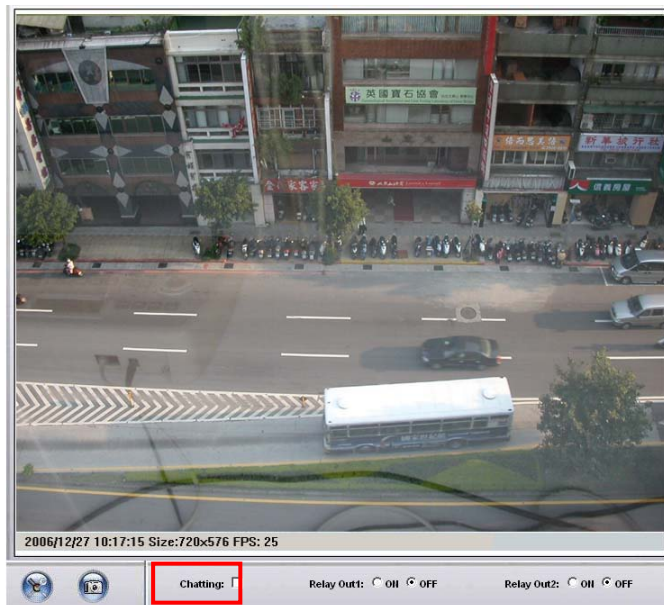
iii 、 Audio :

IP CAMERA supports 2-way audio. User can send audio from IP Camera Built-in mic to remote PC; User can also send audio from remote PC to IP Camera's external speaker.

- a. Audio from IP camera built-in mic to local PC: select "Enable" to start this function.



- b. Audio from local PC to IP Camera: Check "chatting" in the browsing page.



The Audio will not be smooth when enable SD card recording function simultaneously.

D.Event List

IP CAMERA provides multiple event settings.

i、Event Setting

Event Setting

Motion Detection

Area Setting:

Sensitivity: Area 1: 5 Area 2: 5 Area 3: 5

☒ Area 1: ☐ E-mail ☐ FTP ☐ Out1 ☐ Out2 ☐ Save to SD card

☐ Area 2: ☐ E-mail ☐ FTP ☐ Out1 ☐ Out2 ☐ Save to SD card

☐ Area 3: ☐ E-mail ☐ FTP ☐ Out1 ☐ Out2 ☐ Save to SD card

Subject: IP Camera Warning!

Interval: 10 sec

Record Time Setting

Pre Alarm: 5 sec Post Alarm: 5 sec

Network IP Check

IP Check: ☐ Enabled ☒ Disabled

IP Address: www.google.com

Interval: 30 sec

IP Check: ☐ Save to SD card

Apply

a. Motion Detection :

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card. To set up the motion area, click "Area Setting". Using mouse to drag and draw the area. The same operation for area 2 and 3.

b. Record Time Setting :

Pre Alarm and Post Alarm setups for video start and end time when motion detected, I/O, or other devices got triggered.

c. Network Dis-connected :

When the network is down, it will save the video to local SD card.

This function is only enabled in wire connection.

d. Network IP check

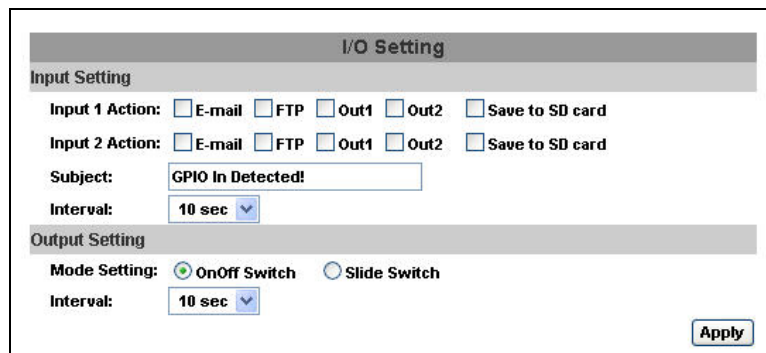
When the connection is down, it records the video to SD card. Make sure the video recording is continuous. To use this function, key in the IP address of the PC which has recording software installed.

Enable the function of "Save to SD card", then click "Apply".

The interval of two video files on SD card is fixed with 30 seconds.

ii 、 I/O Setting

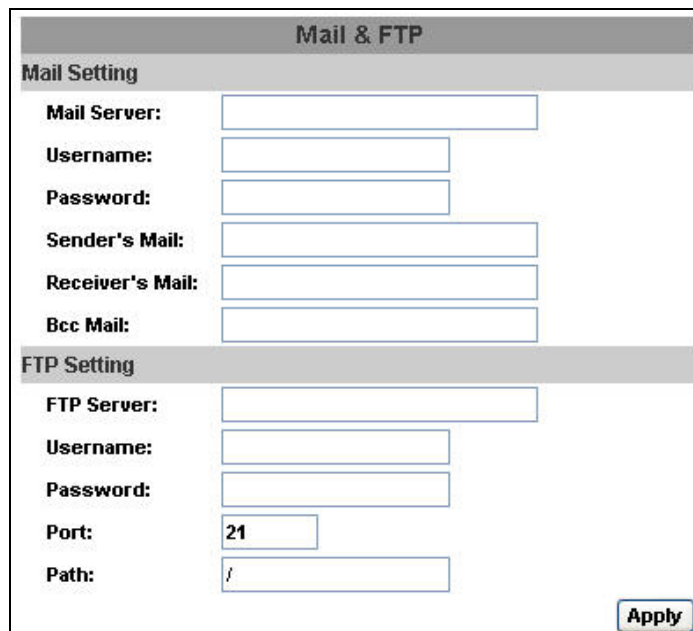
IP CAMERA supports 2 input/ 2 output. When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card.



The I/O Setting interface is divided into two main sections: Input Setting and Output Setting. The Input Setting section includes fields for Input 1 Action and Input 2 Action, each with checkboxes for E-mail, FTP, Out1, Out2, and Save to SD card. Below these is a Subject field with the text 'GPIO In Detected!' and an Interval dropdown menu set to '10 sec'. The Output Setting section includes a Mode Setting with radio buttons for OnOff Switch (selected) and Slide Switch, and an Interval dropdown menu set to '10 sec'. An Apply button is located at the bottom right of the form.

iii 、 Mail & FTP

To send out the video via mail of ftp, please set up the configuration first.



The Mail & FTP interface is divided into two main sections: Mail Setting and FTP Setting. The Mail Setting section includes fields for Mail Server, Username, Password, Sender's Mail, Receiver's Mail, and Bcc Mail. The FTP Setting section includes fields for FTP Server, Username, Password, Port (set to 21), and Path (set to /). An Apply button is located at the bottom right of the form.

iv 、 Log List

Log List	
System Logs	Logs
Motion Detection Logs	Logs
I/O Logs	Logs
All Logs	Logs

Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.

v 、 SD card

Please Insert SD card before use it. Make sure pushing SD card into the slot completely.

Note : Use of SD card will affect the operation of the IP CAMERA slightly, such as affecting the frame rate of the video.



a. Playback:

Playback	
19700101	20060417
SD Card: << 878M / 982M >>	

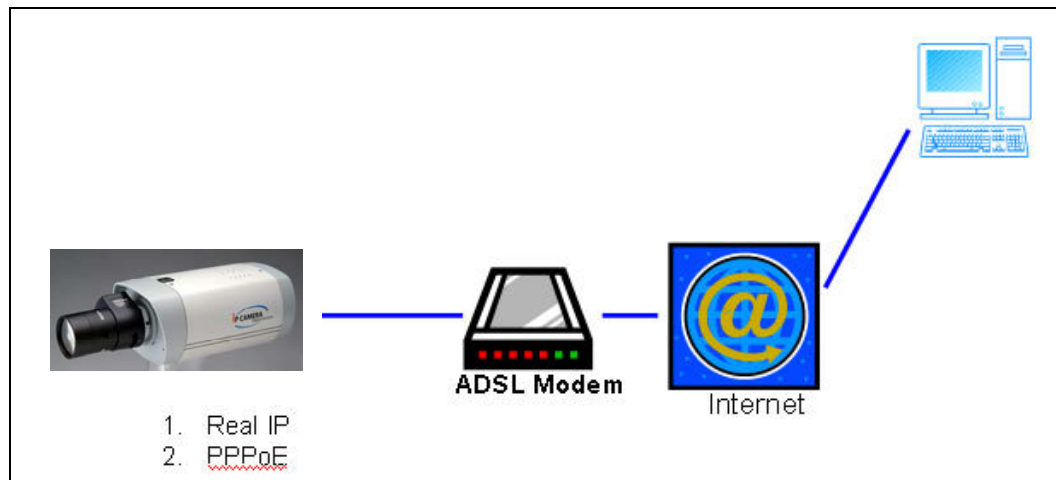
b. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.

2006/04/17			Del
Time	Video	Event Type	<input type="checkbox"/>
09:05:22	090522f.avi	Network Dis-connected	<input type="checkbox"/>
09:05:52	090552f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:22	090622f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:52	090652f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:22	090722f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:52	090752f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:22	090822f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:51	090851f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:21	090921f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:51	090951f.avi	Network Dis-connected	<input type="checkbox"/>
1 2 3 4 5			

1. The video format is AVI. Click the video to start Microsoft Media Player to play it.
2. To delete the video, check it, then click **Del**. When the SD card is full, it will remove the oldest video automatically.

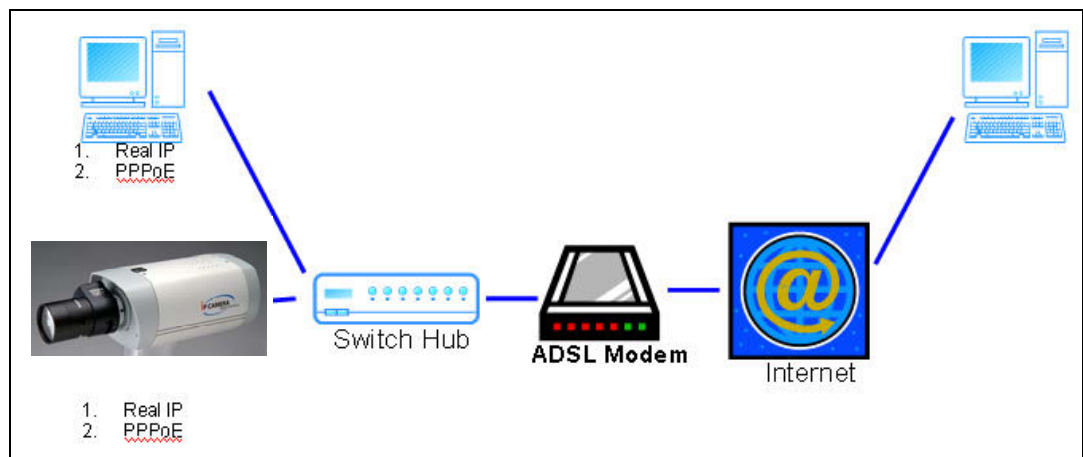
VI. Network Configuration

i、 Configuration 1 :



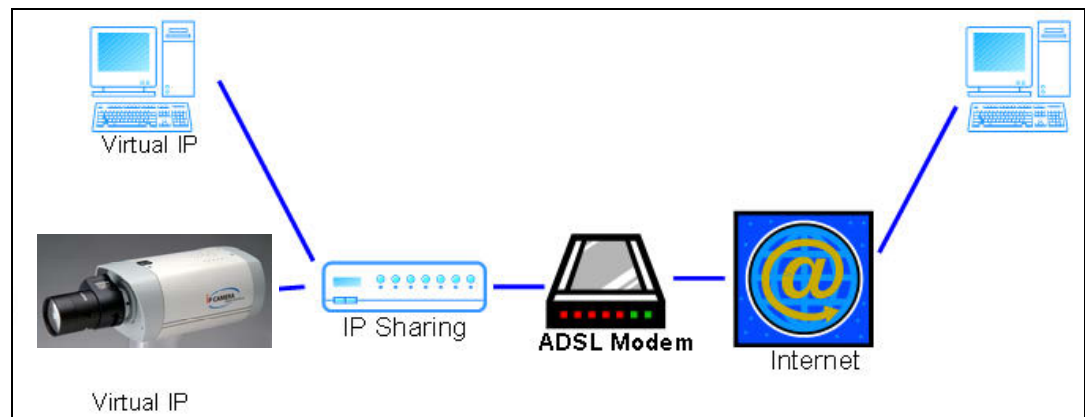
- Internet Access : ADSL or Cable Modem
- IP address : One real IP or one dynamic IP
- Only IP CAMERA connects to the internet
- For fixed real IP, set up the IP into IP CAMERA. For dynamic IP, start PPPoE.

ii、 Configuration 2 :



- Internet Access : ADSL or Cable Modem
- IP address : More than one real IP or one dynamic IP
- IP CAMERA and PC connect to the internet
- Device needed : Switch Hub
- For fixed real IP, set up the IP into IP CAMERA and PC. For dynamic IP, start PPPoE.

iii 、 Configuration 3 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : one real IP or one dynamic IP
- c. IP CAMERA and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.